



**Product:** [8163](#) 

RS-232/422 Low Cap, #24-3pr, FPO, Individ. & O/A Foils+Braid, PVC Jkt, CM, 100Ω

## Product Description

Computer EIA RS-232/422, Digital Audio Cable, 24 AWG stranded (7x32) tinned copper conductors, Datalene® insulation, 3 twisted pairs individually Beldfoil® shielded + overall 100% Beldfoil® + tinned copper braid shield (65% coverage), drain wire, PVC jacket.

## Technical Specifications

### Product Overview

|                        |   |
|------------------------|---|
| Suitable Applications: | RS-232 Extended Distance & RS-422 Applications; Computer Communications; Low Voltage Analog signals (4-20ma, 0-10v, ...); Low Voltage Digital Control (24v, ...); Digital Audio; Panel Wiring |
|------------------------|---|

### Construction Details

#### Conductor

| Element | No. of Elements | Size   | Stranding | Material           |
|---------|-----------------|--------|-----------|--------------------|
| Pair(s) | 3               | 24 AWG | 7x32      | TC - Tinned Copper |

#### Insulation

| Element | Material                 | Nom. Thickness     | Nom. Insulation Diameter | Color Code                                |
|---------|--------------------------|--------------------|--------------------------|---|
| Pair(s) | PE - Polyethylene (Foam) | 0.019 in (0.48 mm) | 0.061 in (1.5 mm)        | Black & Red, Black & White, Black & Green |

#### Inner Shield

| Element | Shield Type | Material                | Coverage | Drainwire Type   | Notes                      |
|---------|-------------|-------------------------|----------|------------------|----------------------------|
| Pair(s) | Tape        | Bi-Laminate (Alum+Poly) | 100%     | 24 AWG (7x32) TC | each pair, Z-Fold® Foil-in |

#### Outer Shield

| Shield Type | Material                | Coverage |
|-------------|-------------------------|----------|
| Tape        | Bi-Laminate (Alum+Poly) | 100%     |
| Braid       | Tinned Copper (TC)      | 65%      |

#### Outer Jacket

| Material                 | Nom. Thickness    | Nom. Diameter      |
|--------------------------|-------------------|--------------------|
| PVC - Polyvinyl Chloride | 0.048 in (1.2 mm) | 0.359 in (9.12 mm) |

|                                   |                    |
|-----------------------------------|--------------------|
| Overall Cable Diameter (Nominal): | 0.359 in (9.12 mm) |
|-----------------------------------|--------------------|

### Electrical Characteristics

#### Electricals

| Element               | Nom. Conductor DCR | Nom. Capacitance Cond-to-Cond | Nom. Capacitance Cond-to-Other (Conds + Shield) | Nom. Characteristic Impedance | Nom. Velocity of Prop. | Max. Current                   |
|-----------------------|--------------------|-------------------------------|---|-------------------------------|------------------------|--------------------------------|
| Pair(s)               | 24 Ohm/1000ft      | 12.5 pF/ft (41.0 pF/m)        | 22 pF/ft (72 pF/m)                              | 100 Ohm                       | 78%                    | 1.6 Amps per Conductor at 25°C |
| Nom Outer Shield DCR: |                    | 4.4 Ohm/1000ft (14 Ohm/km)    |   |                               |                        |                                |

#### Voltage

| UL Voltage Rating               |
|---------------------------------|
| 300 V (CM), 300 V (UL AWM 2493) |

### Mechanical Characteristics

Temperature

| UL Temperature | Operating      |
|----------------|----------------|
| 60°C           | -40°C to +60°C |

Bend Radius

| Stationary Min. | Installation Min. |
|-----------------|-------------------|
| 3.6 in (91 mm)  | 3.6 in (91 mm)    |

|                    |                |
|--------------------|----------------|
| Max. Pull Tension: | 84 lbs (38 kg) |
| Bulk Cable Weight: | 62 lbs/1000ft  |

Standards and Compliance

|                                  |  |
|----------------------------------|--|
| Environmental Suitability:       | Indoor (Not Riser or Plenum), Indoor   |
| Flammability / Reaction to Fire: | UL 1685 FT4 Loading, IEC 60332-1-2   |
| CPR Compliance:                  | CPR Euroclass: Eca   |
| NEC / UL Compliance:             | Article 800, CM  |
| AWM Compliance:                  | AWM 2493   |
| CEC / C(UL) Compliance:          | CM   |
| European Directive Compliance:   | EU CE Mark, EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE) |
| UK Regulation Compliance:        | UKCA Mark  |
| APAC Compliance:                 | China RoHS II (GB/T 26572-2011)  |

Product Notes

|        |  |
|--------|--|
| Notes: | Datalene® insulation features include low dielectric constant and a dissipation factor for high-speed, low-distortion data handling. Physical properties include good crush resistance and light weight. |
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History

|                      |  |
|----------------------|--|
| Update and Revision: | Revision Number: 0.562 Revision Date: 09-07-2025 |
|----------------------|--|

Part Numbers

Variants

| Item #       | Color  | Putup Type | Length   | UPC/EAN       | Footnote |
|--------------|--------|------------|----------|---------------|----------|
| 8163.0030    | Chrome | Reel       | 30 m     | 8719605017932 |          |
| 8163 060100  | Chrome | Reel       | 100 ft   | 612825195597  |          |
| 8163.01152   | Chrome | Reel       | 152 m    | 8719605017956 |          |
| 8163.00305   | Chrome | Reel       | 305 m    | 8719605017949 |          |
| 8163 060500  | Chrome | Reel       | 500 ft   | 612825195610  | C        |
| 8163 0601000 | Chrome | Reel       | 1,000 ft | 612825195603  | C        |
| 8163 0605000 | Chrome | Reel       | 5,000 ft | 612825195627  | C        |

|           |                        |
|-----------|------------------------|
| Footnote: | C - CRATE REEL PUT-UP. |
|-----------|------------------------|

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